

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S44	1	(extend\$4 insert\$4 add\$4) with class with software same (JIT)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 10:57
S46	68	class near3 extension same processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:24
S49	146	extended near3 software same processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:25
S50	9	extended near3 software same processor same class	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:30
S53	2	core adj class adj definition same compil\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:32
S56	141	class near4 extension same compil\$4 and processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:33
S57	4	class near4 extension same compil\$4 same processor	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:37
S58	79	(build\$4 construct\$4) same (compiler) same class same exten\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 11:50

EAST Search History

S60	11	(build\$4 construct\$4 generat\$4 creat\$4 develop\$4) with compiler same extend\$4 with (object adj class)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 15:05
S61	6	adding same extension same fields same class same definition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/24 16:21

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	23	(exten\$5) with software same compil\$4.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:32
L2	12	(exten\$5) with software same compil\$4.clm.	US-PGPUB	OR	ON	2007/04/26 17:32
L3	31	(exten\$5) with class with software. clm.	US-PGPUB	OR	ON	2007/04/26 17:34
L4	1	(exten\$5) with class with software same compiler.clm.	US-PGPUB	OR	ON	2007/04/26 17:35
L5	2	configurat\$4 with exten\$4 with software same (generat\$4 produc\$4 construct\$4) with extend\$4 with software.clm.	US-PGPUB	OR	ON	2007/04/26 17:37
L7	8	extend\$4 with version with software.clm.	US-PGPUB	OR	ON	2007/04/26 17:37
L9	2	adding same extension same class same definition.clm.	US-PGPUB	OR	ON	2007/04/26 17:38
L13	10	(build\$4 construct\$4 generat\$4 creat\$4 develop\$4) same compiler same extend\$4.clm.	US-PGPUB	OR	ON	2007/04/26 17:39
L15	3	class adj definition same compil\$4. clm.	US-PGPUB	OR	ON	2007/04/26 17:40
L16	11	(generat\$4 creat\$4) with software with development with specification.clm.	US-PGPUB	OR	ON	2007/04/26 17:42
L17	1	(object adj description adj language) same pre\$processor same (header adj file).clm.	US-PGPUB	OR	ON	2007/04/26 17:43
L18	2	(object adj description adj language) same pre\$processor same (header adj file) and ("717"/\$.ccls.)	US-PGPUB	OR	ON	2007/04/26 17:44
L19	2	(object adj description adj language) same pre\$processor same (header adj file) and ("717"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:44

EAST Search History

L20	1	adding same extension same fields same class same definition and ("717"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:46
L21	10	(build\$4 construct\$4 generat\$4 creat\$4 develop\$4) with compiler same extend\$4 with (object adj class) and ("717"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:48
L22	3	class near4 extension same compil\$4 same processor and ("717"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:49
L23	2	extended near3 software same processor same class and ("717"/\$. ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/26 17:50

there are two basic reasons for these problems. The first ...

Keywords: Java core reflection, Java virtual machine, class files, class objects, generics, loading, parametric polymorphism

4 Access control with IBM Tivoli access manager



Günter Karjoth

May 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(367.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web presence has become a key consideration for the majority of companies and other organizations. Besides being an essential information delivery tool, the Web is increasingly being regarded as an extension of the organization itself, directly integrated with its operating processes. As this transformation takes place, security grows in importance. IBM Tivoli Access Manager offers a shared infrastructure for authentication and access management, technologies that have begun to emerge in the com ...

Keywords: Access control, WWW security, Web servers, authorization management

5 Extending Apache Axis for monitoring of Web Service Offerings

Wei Ma, Vladimir Tosic, Babak Esfandiari, Bernard Pagurek

March 2005 **Proceedings of the IEEE EEE05 international workshop on Business services networks BSN '05**

Publisher: IEEE Press

Full text available: pdf(121.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The Web Service Offerings Infrastructure (WSOI) is a monitoring and management infrastructure for the Web Service Offerings Language (WSOL). It extends Apache Axis, an open-source tool for hosting Web Services. We present technical details of several WSOI solutions for monitoring of Web Services: To pass management information between management parties, we built WSOI serializer and WSOI deserializer modules converting data between formats of Axis' MessageContext properties and SOAP headers. To ...

6 Automatic metadata creation: Automatic document metadata extraction using support vector machines

Hui Han, C. Lee Giles, Eren Manavoglu, Hongyuan Zha, Zhenyue Zhang, Edward A. Fox

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries JCDL '03**

Publisher: IEEE Computer Society

Full text available: pdf(154.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Automatic metadata generation provides scalability and usability for digital libraries and their collections. Machine learning methods offer robust and adaptable automatic metadata extraction. We describe a Support Vector Machine classification-based method for metadata extraction from header part of research papers and show that it outperforms other machine learning methods on the same task. The method first classifies each line of the header into one or more of 15 classes. An iterative converg ...


7 Algorithm 755: ADOL-C: a package for the automatic differentiation of algorithms written in C/C++



Andreas Griewank, David Juedes, Jean Utke

June 1996 **ACM Transactions on Mathematical Software (TOMS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available:  pdf(494.33 KB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The C++ package ADOL-C described here facilitates the evaluation of first and higher derivatives of vector functions that are defined by computer programs written in C or C++. The resulting derivative evaluation routines may be called from C/C++, Fortran, or any other language that can be linked with C. The numerical values of derivative vectors are obtained free of truncation errors at a small multiple of the run-time and randomly accessed memory of the given function evaluation program. D ...


Keywords: Hessians, Taylor coefficients, automatic differentiation, chain rule, forward mode, gradients, overloading, reverse mode

8 Extendible hashing—a fast access method for dynamic files



Ronald Fagin, Jurg Nievergelt, Nicholas Pippenger, H. Raymond Strong
September 1979 **ACM Transactions on Database Systems (TODS)**, Volume 4 Issue 3

Publisher: ACM Press

Full text available:  pdf(2.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Extendible hashing is a new access technique, in which the user is guaranteed no more than two page faults to locate the data associated with a given unique identifier, or key. Unlike conventional hashing, extendible hashing has a dynamic structure that grows and shrinks gracefully as the database grows and shrinks. This approach simultaneously solves the problem of making hash tables that are extendible and of making radix search trees that are balanced. We study, by analysis and simulatio ...

Keywords: B-tree, access method, directory, extendible hashing, external hashing, file organization, hashing, index, radix search, searching, trie

9 Using SeSFJava in teaching introductory network courses



Tamer Elsharnouby, A. Udaya Shankar
February 2005 **ACM SIGCSE Bulletin , Proceedings of the 36th SIGCSE technical symposium on Computer science education SIGCSE '05**, Volume 37 Issue 1

Publisher: ACM Press

Full text available:  pdf(154.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Networking course projects are usually described by an informal specification and a collection of test cases. Students often misunderstand the specification or oversimplify it to fit just the test cases. Using formal methods eliminates these misunderstandings and allows the students to test their projects thoroughly, but at the expense of learning a new language. SeSF (Services and Systems Framework) is one way to overcome this obstacle. In SeSF, both implementations and services are defined by ...

10 A readable TCP in the Prolac protocol language



Eddie Kohler, M. Frans Kaashoek, David R. Montgomery
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '99**, Volume 29 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Prolac is a new statically-typed, object-oriented language for network protocol implementation. It is designed for readability, extensibility, and real-world implementation; most previous protocol languages, in contrast, have been based on hard-to-implement theoretical models and have focused on verification. We present a working Prolac TCP implementation directly derived from 4.4BSD. Our implementation is modular--protocol processing is logically divided into minimally-interacting pieces; read ...

11 An overview of the X toolkit

Joel McCormack, Paul Asente

January 1988 **Proceedings of the 1st annual ACM SIGGRAPH symposium on User Interface Software UIST '88**

Publisher: ACM Press

Full text available: pdf(1.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The X11 Window System defines a network protocol [6] for communication between a graphics server and an application. The X library [3] provides a procedural interface to the protocol. The X toolkit [4] is an object-oriented construction kit built on top of the X library. The toolkit is used to write user interface components ("widgets"), to organize a set of widget instances into a complete user interface, and to link a user interface with the functionality provided b ...

12 Extending attribute grammars to support programming-in-the-large

Josephine Micallef, Gail E. Kaiser

September 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 16 Issue 5

Publisher: ACM Press

Full text available: pdf(2.76 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Attribute grammars add specification of static semantic properties to context-free grammars, which, in turn, describe the syntactic structure of program units. However, context-free grammars cannot express programming-in-the-large features common in modern programming languages, including unordered collections of units, included units, and sharing of included units. We present extensions to context-free grammars, and corresponding extensions to attribute grammars, suitable for defining such ...

Keywords: attribute evaluation, attribute grammars, include files, programming-in-the-large, programming-in-the-many separate compilation, static semantics of programming languages

13 SysObjC: C extension for development of object-oriented operating systems

Ádám Balogh, Zoltán Csörnyei

October 2006 **Proceedings of the 3rd workshop on Programming languages and operating systems: linguistic support for modern operating systems PLOS '06**

Publisher: ACM Press

Full text available: pdf(222.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Object-oriented operating systems prefer to consider every data structure as an object. However, data structures predefined by the hardware's manufacturer do not fit into this scheme. First of all, traditional object-oriented languages do not support objects with user-defined representation, which would be needed to these data structures as objects. Secondly, classic object-oriented languages have an overhead unacceptable for operating systems. To overcome both problems we introduce predicate cl ...


Keywords: C, low-level programming, predicate classes, predicate dispatching, system programming

14 The architecture of Montana: an open and extensible programming environment with an incremental C++ compiler

Michael Karasick

November 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th ACM SIGSOFT international symposium on Foundations of software engineering SIGSOFT '98/FSE-6**, Volume 23 Issue 6

Publisher: ACM Press


Full text available:  pdf(1.16 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Montana is an open, extensible integrated programming environment for C++ that supports incremental compilation and linking, a persistent code cache called a CodeStore, and a set of programming interfaces to the CodeStore for tool writers. CodeStore serves as a central source of information for compiling, browsing, and debugging. CodeStore contains information about both the static and dynamic structure of the compiled program. This information spans files, macros, declarations, function bodies, ...

Keywords: C++, compilation, extensible systems, frameworks, incremental compilation, incremental development environments, programming environments

15 A portable thread API for teaching operating systems

Jeffrey D. Martens

June 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 6**Publisher:** Consortium for Computing Sciences in CollegesFull text available:  pdf(40.40 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When teaching a course that includes programming assignments, it can be expedient to allow students a choice in programming language and operating systems, e.g. Java or C++, Windows or Linux, etc. In addition to saving classroom time, this allows the student to focus on the problem at hand, as opposed to an unfamiliar environment or language. To support such flexibility in an introductory OS course, I provide C++ programmers with a Java-like thread API and semaphore and pipe classes, all of which ...

16 C++ in eight weeks



Kailash Chandra

August 1993 **ACM SIGPLAN Notices**, Volume 28 Issue 8**Publisher:** ACM PressFull text available:  pdf(584.92 KB)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A course on Object-Oriented programming in C++ was taught for the first time in the summer of 1992 at Pittsburg State University in the Computer Science - Information Systems Department. This paper is based on that experience. It presents the course description, the topics covered, the computational environment, the evaluation activities, the programming assignments, the tests given, and the student evaluations. It is found that the course can be successful if many problems are done from the very ...

17 Centaurus: an infrastructure for service management in ubiquitous computing environments

Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, Yelena Yesha
November 2002 **Wireless Networks**, Volume 8 Issue 6**Publisher:** Kluwer Academic PublishersFull text available:  pdf(553.67 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the near future, we will see dramatic changes in computing and networking hardware. A large number of devices (e.g., phones, PDAs, even small household appliances) will become computationally enabled. Micro/nano sensors will be widely embedded in most engineered artifacts, from the clothes we wear to the roads we drive on. All of these devices will be (wirelessly) networked using Bluetooth, IEEE 802.15 or IEEE 802.11 for short range connectivity creating pervasive environments. In this age wh ...

Keywords: mobile computing, pervasive computing, service management, ubiquitous computing

18

SynRGen: an extensible file reference generator



Maria R. Ebling, M. Satyanarayanan

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(922.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

SynRGen, a synthetic file reference generator operating at the system call level, is capable of modeling a wide variety of usage environments. It achieves realism through trace-inspired micromodels and flexibility by combining these micromodels stochastically. A micromodel is a parameterized piece of code that captures the distinctive signature of an application. We have used SynRGen extensively for stress testing the Coda File System. We have also performed a controlled ex ...

19 Rule-based workflow management for bioinformatics

S. Conery, M. Catchen, Michael Lynch

September 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(428.34 KB) Additional Information: [full citation](#), [abstract](#)

We describe a data-centric software architecture for bioinformatics workflows and a rule-based workflow enactment system that uses declarative specifications of data dependences between steps to automatically order the execution of those steps. A data-centric view allows researchers to develop abstract descriptions of workflow products and provides mechanisms for describing workflow steps as objects. The rule-based approach supports an iterative design methodology for creating new workflows, whe ...

Keywords: Bioinformatics, Rule-based system, Workflow

20 Managing C++ libraries



J. M. Coggins, G. Bollella

June 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 6

Publisher: ACM Press

Full text available: pdf(859.89 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper describes a scheme we have used to manage a large library written in the C++ language. The scheme imposes a directory structure, and represents dependency hierarchy in a globally accessible file we call the 'prelude' file. We also discuss the structure of the description files (makefiles) used with the UNIX options we have found to be useful in reducing the size of the library, and how to minimize recompilation time after trivial changes to the source code of the library.

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Result page: **1** [2](#) [next](#)Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Document Formatting Systems: Survey, Concepts, and Issues](#)

Richard Furuta, Jeffrey Scofield, Alan Shaw

September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Publisher: ACM Press

Full text available: pdf(5.36 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2** [Adding type parameterization to the Java language](#)

Ole Agesen, Stephen N. Freund, John C. Mitchell

October 1997 **ACM SIGPLAN Notices , Proceedings of the 12th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '97**, Volume 32 Issue 10

Publisher: ACM Press

Full text available: pdf(2.16 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although the Java programming language has achieved widespread acceptance, one feature that seems sorely missed is the ability to use type parameters (as in Ada generics, C++ templates, and ML polymorphic functions or data types) to allow a general concept to be instantiated to one or more specific types. In this paper, we propose parameterized classes and interfaces in which the type parameter may be constrained to either implement a given interface or extend a given class. This design allows t ...

3 [Algorithm 817 P2MESH: generic object-oriented interface between 2-D unstructured meshes and FEM/FVM-based PDE solvers](#)

Enrico Bertolazzi, Gianmarco Manzini

March 2002 **ACM Transactions on Mathematical Software (TOMS)**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(259.04 KB)

Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The software interface P2MESH is a collection of C++ class templates suitable for developing prototypes of high-performance PDE solvers on unstructured 2-D meshes. P2MESH supports several discretization methods on triangles and quadrilaterals, such as finite volume or finite element. The design philosophy of P2MESH does not consider specific model problems or built-in approximation algorithms. The software package is general purpose and it may also be used as a building block in the implementati ...

Keywords: Finite Element, Finite Volume, Object-Oriented programming, PDE solvers, unstructured mesh

4 Session I: Plugging Haskell in

André Pang, Don Stewart, Sean Seefried, Manuel M. T. Chakravarty

September 2004 **Proceedings of the 2004 ACM SIGPLAN workshop on Haskell Haskell '04**

Publisher: ACM Press

Full text available: pdf(153.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Extension languages enable users to expand the functionality of an application without touching its source code. Commonly, these languages are dynamically typed languages, such as Lisp, Python, or domain-specific languages, which support runtime *plugins* via dynamic loading of components. We show that Haskell can be comfortably used as a statically typed extension language for both Haskell and foreign-language applications supported by the Haskell FFI, and that it can perform type-safe dyn ...

Keywords: dynamic loading, dynamic typing, extension languages, functional programming, plugins, staged type inference

5 Cappuccino — A C++ to Java translator

Frank Buddrus, Jörg Schödel

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing SAC '98**

Publisher: ACM Press

Full text available: pdf(534.88 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)6 Mining Software Repositories (MSR): Towards a taxonomy of approaches for mining of source code repositories

Huzefa Kagdi, Michael L. Collard, Jonathan I. Maletic

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 international workshop on Mining software repositories MSR '05**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(102.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Source code version repositories provide a treasure of information encompassing the changes introduced in the system throughout its evolution. These repositories are typically managed by tools such as CVS. However, these tools identify and express changes in terms of physical attributes i.e., file and line numbers. Recently, to help support the mining of software repositories (MSR), researchers have proposed methods to derive and express changes from source code repositories in a more source-cod ...

Keywords: mining software repositories, survey, taxonomy

7 The Click modular router

Robert Morris, Eddie Kohler, John Jannotti, M. Frans Kaashoek

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.46 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Click is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called *elements*. Individual elements implement simple router functions like packet classification, queueing, scheduling, and interfacing with network devices. Complete configurations are built by connecting

elements into a graph; packets flow along the graph's edges. Several features make individual elements more powerful and complex configuration ...

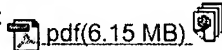
8 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Publisher: MIT Press

Full text available:



Additional Information: [full citation](#)

[Publisher Site](#)

9 Translation of Decision Tables



Udo W. Pooch

June 1974 **ACM Computing Surveys (CSUR)**, Volume 6 Issue 2

Publisher: ACM Press

Full text available: pdf(2.10 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 TIGS: An overview of the terminal independent graphics system



Robert L. Heilman, Jean M. Marchant

August 1978 **ACM SIGGRAPH Computer Graphics , Proceedings of the 5th annual conference on Computer graphics and interactive techniques SIGGRAPH '78**, Volume 12 Issue 3

Publisher: ACM Press

Full text available: pdf(464.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

TIGS is a general purpose subroutine package providing display generation and interaction capability for a general class of graphics terminals. The package is computer, operating system, and display device independent. Primary design objectives were transportability, maintainability, and ease of use. Features supported by TIGS include line, arc, multi-line plot, test and dot primitives with resettable attributes such as line style, character size, intensity, font, color, transfor ...

Keywords: Device independent graphics, Distributed graphics, Graphics subroutine package, Interactive graphics, Neutral display file, Satellite graphics, Terminal independent graphics

11 A design aids data base for digital components

Daniel J. Sucher, Donald F. Wann

June 1979 **Proceedings of the 16th Conference on Design automation DAC '79**

Publisher: IEEE Press

Full text available: pdf(553.24 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A data base containing pertinent information about the components used in a design is a central part of all digital design aids systems. This paper outlines a data base that has been developed for accomodating a wide variety of integrated circuits (IC's) as well as discrete components. A detailed description of the file structure and access subroutines is included, along with a discussion of the design decisions made during their construction.

12 Applications: A graphical programming system for molecular motif search



Janina Reeder, Robert Giegerich

October 2006 **Proceedings of the 5th international conference on Generative programming and component engineering GPCE '06**

Publisher: ACM Press

Full text available: pdf(1.40 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a graphical programming system for a domain specific language in biosequence analysis. It supports the development of programs for RNA structure prediction and motif search, created by biologists with little or no programming skills. The system combines several programming paradigms in a productive way. It has a client - server architecture, with a transport layer in XML. The graphical front-end is implemented in the object-oriented paradigm (using Java). Graphics are compiled into a ...

Keywords: RNA structure, dynamic programming

13 Design principles for software manufacturing tools



Paul Bassett

January 1984 **Proceedings of the 1984 annual conference of the ACM on The fifth generation challenge ACM 84**

Publisher: ACM Press

Full text available: [pdf\(805.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A good solution to the reusable code problem turns out to provide a solid technical basis from which to understand and deal with the production, quality, and maintenance issues currently besieging the software industry. To this end, a software manufacturing methodology has been developed called Computer Aided Programming tm. CAP is based on a functional programming concept called a frame, motivated in turn by the reusable code problem. The introduction explains the necessary back ...

14 The treet time sharing system



H. A. Bayard, C. T. Browne, L. N. Gross, E. C. Haines

March 1971 **Proceedings of the second ACM symposium on Symbolic and algebraic manipulation SYMSAC '71**

Publisher: ACM Press

Full text available: [pdf\(811.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper is a description of the TREET time sharing system as it is presently implemented. Information is provided about the basic TREET system, including data structures, basic functions and facilities, languages, the translator, the assembler, the compiler, storage, and data set access; about the time sharing system, its monitor and file structure; about the editing and debugging facilities for on-line programming; and about four application areas—text processing, tree processing, ...

15 Consistency checking within embedded design languages



A. Rudmik, B. E. Casey, H. Cohen

September 1982 **Proceedings of the 6th international conference on Software engineering ICSE '82**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(841.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

It is difficult to ensure consistency between a program's design and its implementation. An embedded design language (one superimposed on an implementation language) can help. This paper describes a particular embedded design language that was successfully used to design and implement a very large compiling system. This design language has a rich set of constructs for expressing the high-level and detailed designs of a program. It also supports various levels of design and implementation co ...

16 Using AspectJ to separate concerns in parallel scientific Java code



Bruno Harbulot, John R. Gurd

March 2004 **Proceedings of the 3rd international conference on Aspect-oriented software development AOSD '04**

Publisher: ACM Press

Full text available: [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Scientific software frequently demands high performance in order to execute complex

models in acceptable time. A major means of obtaining high performance is via parallel execution on multi-processor systems. However, traditional methods of programming for parallel execution can lead to substantial code-tangling where the needs of the mathematical model crosscut with the concern of parallel execution. Aspect-Oriented Programming is an attractive technology for solving the problem of code-tangling ...

17 Components: Application-specific foreign-interface generation



John Reppy, Chunyan Song

October 2006

Proceedings of the 5th international conference on Generative programming and component engineering GPCE '06

Publisher: ACM Press

Full text available: pdf(207.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A *foreign interface* (FI) mechanism to support interoperability with libraries written in other languages (especially C) is an important feature in most high-level language implementations. Such FI mechanisms provide a *Foreign Function Interface* (FFI) for the high-level language to call C functions and marshaling and unmarshaling mechanisms to support conversion between the high-level and C data representations. Often, systems provide tools to automate the generation of FIs, but the ...

Keywords: foreign-interface generation, term rewriting

18 Migrating well engineered Ada 83 applications into newer architecture and reuse based Ada 95 systems: experiences from Boeing's reuse initiative project



Scott Arthur Moody

December 1996

Proceedings of the conference on TRI-Ada '96: disciplined software development with Ada TRI-Ada '96

Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 C-Transformers: a framework to write C program transformations



Alexandre Borghi, Valentin David, Akim Demaille

May 2006 **Crossroads**, Volume 12 Issue 3

Publisher: ACM Press

Full text available: html(56.71 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

20 Session B: Computer graphics in education: Experiences in porting a virtual reality system to Java



Shaun Bangay

November 2001

Proceedings of the 1st international conference on Computer graphics, virtual reality and visualisation AFRIGRAPH '01

Publisher: ACM Press





Full text available: pdf(527.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Practical experience in porting a large virtual reality system from C/C++ to Java indicates that porting this type of real-time application is both feasible, and has several merits. The ability to transfer objects in space and time allows useful facilities such as distributed agent support and persistence to be added. Reflection and type comparisons allow flexible manipulations of objects of different types at run-time. Native calls and native code compilation reduce or remove the overhead of in ...

Keywords: Java, native calls, networking, serialization

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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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 Kramer, R.;
Technology of Object-Oriented Languages, 1998. TOOLS 26. Proceedings
 3-7 Aug. 1998 Page(s):295 - 307
 Digital Object Identifier 10.1109/TOOLS.1998.711021
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 Gil, J.; Holstein, B.;
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 Juanjuan Jiang; Systa, T.;
Software Maintenance and Reengineering, 2003. Proceedings. Seventh European Conference on
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 Volume 8, Issue 1, Jan. 1990 Page(s):99 - 106
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Hello, my name is Richard Russo. I'm the newest member of the Visual C++ compiler front-end developer team, having started in January.
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The C Preprocessor - Header Uses

System **header files** declare the interfaces to parts of the operating system. ... Your own **header files** contain declarations for interfaces between the ...
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The C Preprocessor: Header Files

A **header file** is a **file** containing C declarations and macro definitions (see section 3. Macros) to be shared between several source **files**. ...
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The C Preprocessor

The C **Preprocessor**. ... System **header files** declare the interfaces to parts of the operating system. You include them in your program to supply the ...
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Header file - Wikipedia, the free encyclopedia

Each source **file** that references one of these identifiers then uses a C **preprocessor** **#include** directive to logically include the **header file** as part of the ...
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Preprocessor - Wikipedia, the free encyclopedia

Thereafter, if that **header file** is included again, FOO_H will already be defined, causing the **preprocessor** to skip the entirety of the **header file's** text. ...
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Xlib Programming Manual: Standard Header Files

This is the main **header file** for Xlib. The majority of all Xlib symbols are declared by including this **file**. This **file** also contains the **preprocessor** symbol ...
[tronche.com/gui/x/xlib/introduction/header.html - 5k - Cached - Similar pages](#)

The C Preprocessor

A **header file** is a **file** containing C declarations and macro definitions ... System **header files** declare the interfaces to parts of the operating system. ...
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Pthreads APIs - User's Guide and Reference

In addition, you must define the **preprocessor** definition **_MULTI_THREADED** in ... For example, to display the pthread.h **header file** using the Source Entry ...
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Managing Dependencies Between Source Files > The Preprocessor: For ...

Alan Ezust and Paul Ezust introduce the features of the C **preprocessor**. They also explain forward class declarations versus including **header files**, ...
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CS 368 Spring 2004: Programming Assignment 1

the **header file** for your **extended Student class** in a file named Student.h; the source code for your **extended Student class** in a file named Student.cpp ...

www.cs.wisc.edu/~hasti/cs368/course/assignments/p3/p3.html - 10k -

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Analog Devices : Embedded Processing & DSP : Technical Support ...

20252 : regs_clobbered not working on **class** methods and pointers ... As the compiler only includes system **header files** in a compilation once, ...

www.analog.com/processors/cda/epTASearchResult/0,3001,,00.html - 961k -

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The Objective-C Programming Language: Extending Classes

Categories can be used to **extend classes** defined by other ... A **class** or category that adopts a protocol must import the **header file** where the protocol is ...

developer.apple.com/documentation/Cocoa/

Conceptual/ObjectiveC/Articles/chapter_4_section_7.html - 56k - [Cached](#) - [Similar pages](#)

(ESNUG 341 Item 15 ...

Also, the syntax for declaring **classes** in **header files** is not as flexible: you cannot ...

`#include "hisC.vrh" extern class myC extends herC { hisC hisC_obj; ...`

www.deepchip.com/items/0341-15.html - 12k - [Cached](#) - [Similar pages](#)

cnf: Switch Files plug-in for C/C++ Pack.

Extend C/C++ Pack with Switch Source/Header files plug-in ... Change **Class** Name to CppSwitchAction and Display Name to C/C++ Switch Files. Click Finish. ...

cnf.netbeans.org/docs/switch-h-cpp/switch-h-cpp-plugin.html - 29k -

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C++ Reference

This functionality is provided through several related **classes**, as shown in the following relationship map, with the corresponding **header file** names on top: ...

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Detector Description Task List & Status ...

Modify DetectorElement **classes** 2. Modify DDROOT file conversion service 3. ... Create C++ **header files** for NOVA data 9. **Extend** DetectorManager API for ...

atlas.web.cern.ch/Atlas/GROUPS/SOFTWARE/

OO/architecture/EventDataModel/DDTaskList.txt - 6k - [Cached](#) - [Similar pages](#)

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Normally, you declare a **class** in a dedicated **header file** and define its member functions ...

Use Function Adapters to **Extend** Generic Algorithms' Usage ...

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Gives the CSS **class** to be applied to even numbered rows of the results table. ... The file given by file sets **header file** which replaces the first part of ...

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[PPT] Persistency Components in Gaudi

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Extending Classes. Extensions to **classes** are also required by some clients (e.g. ...

Emphasis in the dictionary generation from **header files** using gccxml. ...

<http://www.google.com/search?hl=en&q=header+file+extend+class>

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S4 1505 11540 S (JUST(IN)TIME OR JIT)(3N)S3 OR DYNAMIC?(3N)TRANSLAT???

S5 9329 48672 S S1(5N)CLASS??

S6 984539 8831447 S EXTEND??? OR EXTENSION? ?

S7 233546 923550 S S1(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)

S8 2862 9598 S S3(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)

S9 91374 487852 S (PROCESSOR? ? OR OPERATING()SYSTEM? ? OR ENVIRONMENT? ? OR ARCHITECTURE? ? OR PLATFORM? ?)(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)

S10 5 102 S S2(100N)S5(5N)S6(100N)S7(100N)S8(100N)S9

S11 68 282 S S8(5N)(SCENARIO? ? OR CASE? ? OR OPTION? ?)

S12 3 15 S S11(50N)S2

S13 5 35 S S11(100N)S2

S14 5 35 S S13 NOT S10

S15 35 422 S S4(50N)S2

S16 20 334 S S4(100N)S2(100N)S5:S6

S17 19 319 S S16 NOT (S10 OR S14)

S18 13 138 S S17 NOT AD=20030627:20070425/PR

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Set	Items	Postings	Description
S1	8776276	14865636	S SOFTWARE?? OR APPLICATION? ?
S2	378107	1015288	S S1(3N)DEVELOP????
S3	222898	395869	S COMPIL??? OR COMPILATION
S4	3082	12477	S (JUST()IN()TIME OR JIT)(3N)S3 OR DYNAMIC?(3N)TRANSLAT???
S5	29737	65519	S S1(5N)CLASS??
S6	2489917	3316602	S EXTEND??? OR EXTENSION? ?
S7	404078	869370	S S1(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)
S8	6692	14382	S S3(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)
S9	178556	416551	S (PROCESSOR? ? OR OPERATING()SYSTEM? ? OR ENVIRONMENT? ? OR ARCHITECTURE? ? OR PLATFORM? ?)(3N)(PLURAL OR PLURALITY OR MULTIPLE OR MULTIPLICITY OR MANY OR DISPARATE OR NUMEROUS OR SEVERAL OR DIFFERENT OR VARIED OR VARY??? OR VARIOUS)

S10	0	0	S S2 AND S5(5N)S6 AND S7 AND S8 AND S9
S11	4	35	S S2 AND S5(5N)S6 AND S7:S9
S12	4	35	RD (unique items)
S13	0	0	S S2 AND S5(5N)S6 AND S4
S14	116	849	S S2 AND S4
S15	10	128	S S14 AND S7:S8
S16	67983	167938	S (PROCESSOR? ? OR OPERATING()SYSTEM? ? OR ENVIRONMENT? ? OR ARCHITECTURE? ? OR PLATFORM? ? OR MACHINE? ?)(3N)(INDEPENDENT? OR ADAPT?)
S17	5	57	S S16 AND S14
S18	13	185	S S15 OR S17
S19	9	126	RD (unique items)
S20	9	126	S S19 NOT S12
S21	8	116	S S20 NOT PY=2004:2007
S22	1600	3521	S S3(3N)(SCENARIO? ? OR CASE? ? OR OPTION? ?)
S23	78	425	S (S2 OR S5) AND S22
S24	74	406	S S2 AND S22
S25	1	10	S S24 AND (CLASS?? OR S6)
S26	125	402	S S8(3N)(SCENARIO? ? OR CASE? ? OR OPTION? ?)
S27	17	103	S S26 AND (S9 OR S16)
S28	9	52	RD (unique items)
S29	9	52	S S28 NOT (S12 OR S21 OR S25)
S30	7	42	S S29 NOT PY=2004:2007